#### Diazotization

$$Ar \longrightarrow NH_2 + HCI + HNO_2 \longrightarrow Ar \longrightarrow N \longrightarrow N \longrightarrow N \longrightarrow N \longrightarrow N$$

### Azo coupling

$$Ar - \stackrel{+}{N} = N \quad Cl - +$$
 $Ar - N$ 
 $N - Or$ 
 $N - Or$ 

FIG. 1

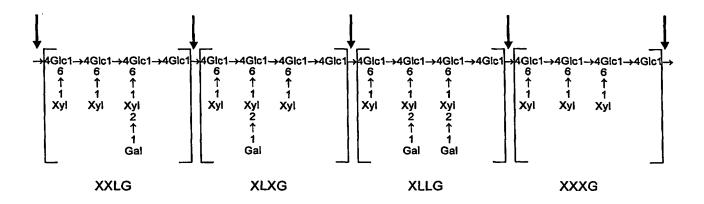


FIG. 2

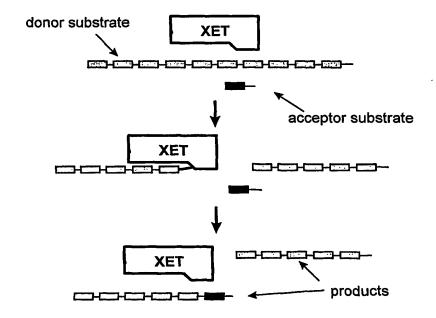
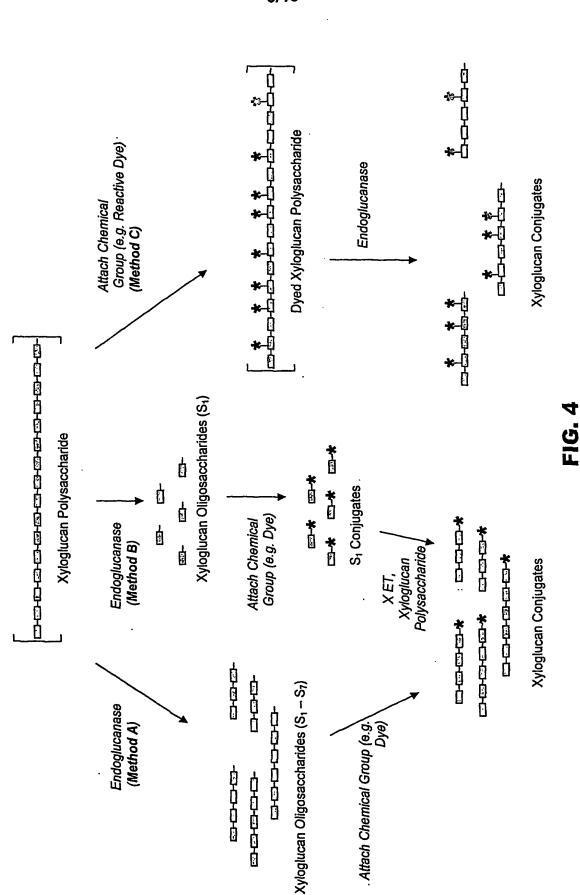


FIG. 3





# FIG. 5

FIG. 6

FIG. 7

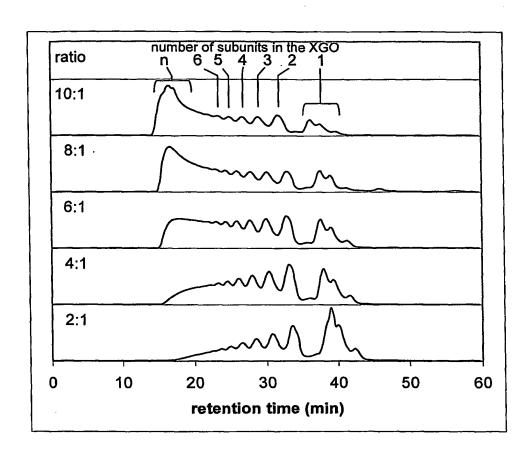


FIG. 8

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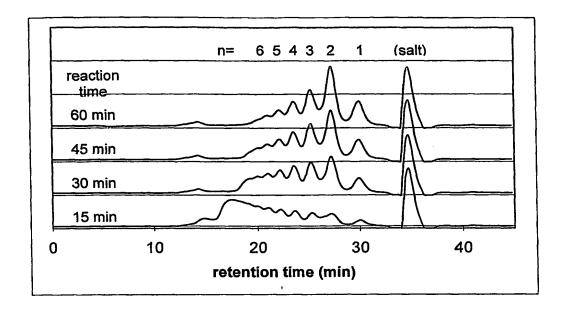


FIG. 9

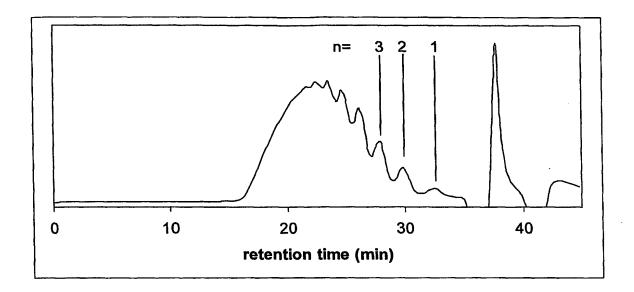


FIG. 10

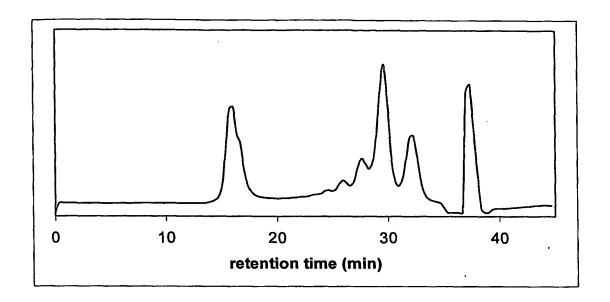


FIG. 11

FIG. 12

FIG. 13

FIG. 14

FIG. 15

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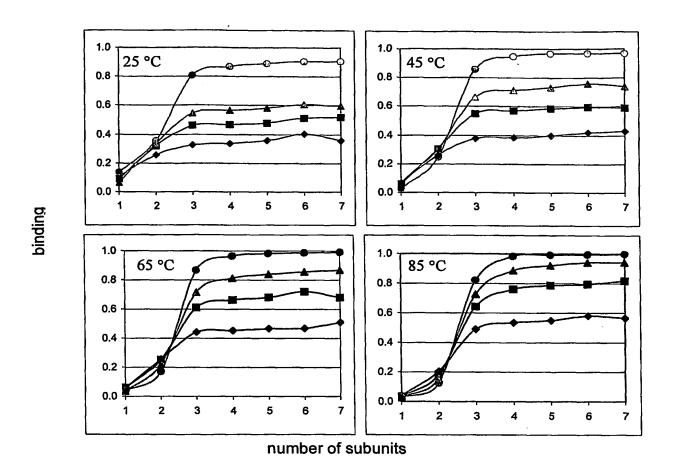


FIG. 16

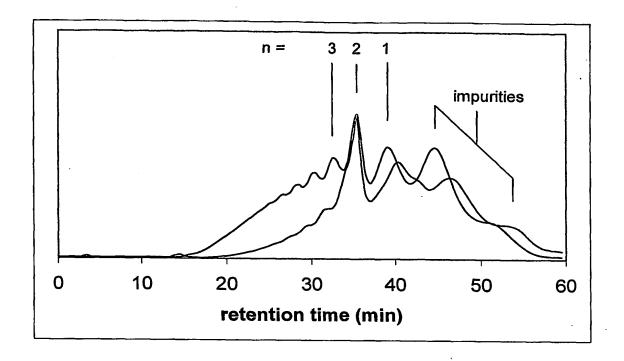


FIG. 17